**How to: Setup Postgresql Database for Prototyping**

This document describes the creation of a prototype database using PostgresQL and PGadmin.

**Install PostGIS:**

For Windows go to: <https://postgis.net/windows_downloads/> for the binary installation file.

**Create your database(Using PGadmin):**

CREATE TABLE Events(

id SERIAL PRIMARY KEY,

name VARCHAR(100) NOT NULL,

longitude REAL NOT NULL,

latitude REAL NOT NULL

);

**Enable the PostGIS compatibility:**

CREATE EXTENSION postgis;

**Populate the database:**

INSERT INTO events(name,longitude,latitude)

VALUES ('Cavalli Estate',18.813923,-34.006773),

('Steffanies Place',18.843198,-34.051009),

('The Fat Butcher',18.864288,-33.936155),

('Genki',18.860674,-33.937470),

('Ginos',18.854798,-33.940412),

('Hudsons',18.856651,-33.939561),

('Terroir',18.836312,-33.970116),

('La Pineta',18.825822,-33.986431),

('Tokara Restaurant',18.919858,-33.915156),

('Mont Marie Restaurant',18.872005,-33.978487);

**Create a geography column for spatial calculations:**

ALTER TABLE events ADD COLUMN coordinates geography(Point,4326);

UPDATE events SET coordinate = ST\_SetSRID(ST\_MakePoint(longitude, latitude), 4326);